kind reveal this remarkable resistance of living tissue to disintegrating agents under which the same tissues, when dead, rapidly disintegrate at normal temperatures.

The walls of every stomach resist its own digestive juices, which quickly break down into simpler chemical constituents the complex material of any piece of dead tissue.

It seems clear that the whale found Jonah to be a quite indigestible morsel; and the experiment has been repeated by way of a dog's stomach to which access has been made easy through an opening or fistula established by surgical operation. Through the opening the leg of a frog could be placed in the stomach. It was found that if the frog was a dead frog, the leg was promptly attacked and dissolved by the digestive juices ; but that, so long as the frog was a living frog, the tissues of its leg absolutely resisted the dissolvent powers of those same juices.

An essentially similar, and perhaps more striking and decisive demonstration of resistance to disintegrative influences is provided by the following experiment.

It was found possible to inject into the protoplasmic substance of amoeba a drop of picric acid solution of a strength which at once coagulates any protein in a test tube ; the drop of acid remained ' encysted ' in the living protoplasm without exerting upon it any serious effect.

To this we might add the familiar fact that it is very difficult to get living tissue to stain with the staining chemicals used by the microscopist But the same tissue so soon as killed stains readily in many

characteristic ways. This may be demonstrated in striking fashion by placing a bit of living tissue under the microscope and applying stains to which it remains recalcitrant; then a jet of steam applied to the cover glass kills it, and it forthwith takes up the stain.